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The invention claimed is:

- 1 1. A method for reconfiguring a communication system, comprising the steps of:
2 determining at least one condition associated with a mobile station; and
3 selecting one of a plurality of transmit configurations using the at least one channel
4 condition.
- 1 2. The method of claim 1, wherein the at least one channel condition is the mobility of the
2 mobile station.
- 1 3. The method of claim 1, wherein the at least one channel condition is the capabilities of
2 the mobile station.
- 1 4. The method of claim 1, wherein the at least one channel condition is the carrier to noise
2 ratio of the communication channel.
- 1 5. The method of claim 1, wherein the at least one channel condition is the signal to noise
2 ratio of the communication channel.
- 1 6. The method of claim 1, wherein the at least one channel condition is an error rate.
- 1 7. The method of claim 1, wherein the step of selecting comprises selecting a single
2 antenna transmit configuration.
- 1 8. The method of claim 1, wherein the step of selecting comprises selecting a selection
2 transmit diversity transmit configuration.
- 1 9. The method of claim 1, wherein the step of selecting comprises selecting a space time
2 spreading transmit configuration.
- 1 10. The method of claim 1, wherein the step of selecting comprises selecting a multi-
2 output and multi-input transmit configuration.

1 11. The method of claim 1, wherein the step of selecting comprises selecting a
2 configuration that selects one of a plurality of transmit antennas.

1 12. The method of claim 1, wherein the step of selecting comprises selecting a
2 configuration that transmits using a plurality of transmit antennas.

1 13. The method of claim 12, wherein the step of selecting comprises selecting a
2 configuration that transmits using a plurality of transmit antennas, where each antenna uses a
3 different orthogonal code.

1 14. The method of claim 13, wherein the step of selecting comprises selecting a
2 configuration that transmits using a plurality of transmit antennas, where each antenna uses a
3 different Walsh code.

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